

## ABSTRACT OF THE DISCLOSURE

A mass storage cabinet having passive device position sensing and including shelves for racking device enclosures. A cabinet bus is linked to the shelves and adapted to provide a unique shelf identifier signal to each of the shelves. The cabinet includes a device providing a cabinet identifier to the shelves. The cabinet bus includes junction boxes having first and second sets of sensing wires and a side connectors linked to the shelves for providing the shelf identifier signal from the first and second sets of sensing wires. To provide a different signal at each junction box, the sensing wires in the first set are moved one position and the sensing wires in the second set are moved one position prior to the connection to an adjacent junction box. An additional sensing wire is linked to the side connectors and grounded and ungrounded at each side connector to alter the signal.